

## REMARKS

Applicants have studied the Office Action dated August 19, 2005 and have made amendments to the claims. No new matter has been added by these amendments. It is submitted that the application, as amended, is in condition for allowance. By virtue of this amendment, claims 1-26 are pending. Reconsideration and allowance of the pending claims in view of the above amendments and the following remarks are respectfully requested.

### Rejection under 35 U.S.C. §101

The Examiner rejected claims 1-26 under 35 U.S.C. § 101 as being directed to non-statutory subject matter.

With regards to claims 1-7 and 20-22, the Applicants have amended these claims to recite that they are directed to "a machine implemented method."

With regards to independent method claims 1, 5, and 20, the Applicants have amended these claims to more clearly recite the "providing the multiplier output" or "providing the multiplicative product as an output." Independent computer readable medium claims 15 and 18 have been similarly amended and independent apparatus claims 8, 12, and 24 have also been correspondingly amended. Support for these amendments is found in the specification at, for example, page 38, lines 15-21 and FIG. 1. No new matter has been added by these amendments.

With further regards to claim 1-7, the Applicants point out that these computer-related processes are limited to a practical application in the technical arts. The machine implemented method of, for example, claim 1 accepts two elements of a finite field and transforms those two elements by performing operations on those two elements to produce a "multiplier output." The other independent machine implemented method claims similarly produce a "multiplier output" or a multiplicative product." The Applicants specification points out exemplary practical applications for

multiplying two elements of a finite field to produce a multiplier output. These practical applications include "generation of error correction codes or encryption codes for digital data transmission." Specification, page 3, first paragraph. The Applicants assert that the "multiplier output" or "multiplicative product" produced by the presently claimed invention is a useful, concrete and tangible result. The Applicants therefore respectfully assert that the rejection of these claims under 35 U.S.C. §101 should be withdrawn.

With regards to claims 20-22, the Applicants have amended independent claim 20 to more clearly recite the penultimate limitation of this claim. Support for this amendment is found in the specification at, for example, page 35, second full paragraph. As amended, claim 20 recites the production of "a multiplier output." As described above, the transformation performed by the machine implemented method set forth by claim 20 performs a process that has practical application in the technical arts. The Applicants therefore respectfully assert that the rejection of these claims under 35 U.S.C. §101 should be withdrawn.

With regards to claims 8-14 and 24-26, the Applicants have amended these claims to more clearly recite that they are directed to "hardware implemented multipliers" and "hardware implemented Galois field multipliers." Support for these amendments is found in the specification at, for example, page 47, last paragraph. The Applicants assert that claims 8-14 and 24-26 are clearly directed to statutory apparatuses and that the rejection of these claims under 35 U.S.C. §101 should be withdrawn.

With regards to claims 15-19 and 23, the Applicants have amended the specification to more clearly define computer readable media. The Applicants assert that these claims are now clearly drawn towards statutory machine readable media. The Applicants therefore respectfully assert that the rejection of these claims under 35 U.S.C. §101 should be withdrawn.

Conclusion

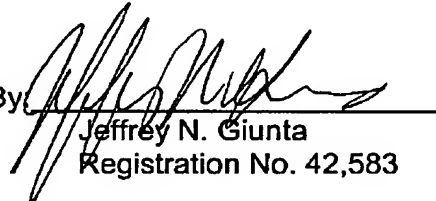
If for any reason the Examiner finds the application other than in condition for allowance, or the Examiner believes that there are any informalities which can be corrected by Examiner's amendment, a telephone call to the undersigned at (561) 989-9811 is respectfully solicited.

No amendment made was related to the statutory requirements of patentability unless expressly stated herein. No amendment made was for the purpose of narrowing the scope of any claim.

Respectfully submitted,

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